



# Safety Data Sheet according to Regulation (EC) 'No. 2015/830

# SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier FLOWCHEM VE GL(FLEX)-RESIN Revision Date: 26/06/2020

Product Name: Flowchem VE GL(Flex)-Resin Supersedes Date: 21/09/2018

1.2 Relevant identified uses of the substance or mixture and uses advised against Washing and Cleaning Products (including solvent based products). Manual activities involving hand contact. For use by appropriately trained applicators. Advised against: Home DIY applications, because of the health hazards and training required.

1.3 Details of the supplier of the safety data sheet

Supplier: Flowcrete UK Ltd.

The Flooring Technology Centre

**Booth Lane** 

Moston, Sandbach, Cheshire. UK

CW11 3QF

Tel: +44 (0)1270 753000 Fax: +44 (0)1270 753333 ehs.uk@flowcrete.com http://www.flowcrete.co.uk

Datasheet Produced by: ehs.uk@flowcrete.com

1.4 Emergency telephone number: CHEMTREC +001 703 5273887 (Outside US)

CHEMTREC 1-800-424-9300 (Inside US)

# **SECTION 2: Hazard Identification**

#### 2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

## HAZARD STATEMENTS

Flammable Liquid, category 3	H226
Skin Irritation, category 2	H315
Eye Irritation, category 2	H319
Acute Toxicity, Inhalation, category 4	H332
STOT, single exposure, category 3, RTI	H335

Date Printed: 26/06/2020 Product: FLOWCHEM VE GL(FLEX)-RESIN

H361d Reproductive Toxicity, category 2 H372 STOT, repeated exposure, category 1 H412 Hazardous to the aquatic environment, Chronic, category 3

H226

H315

#### 2.2 Label elements

#### Symbol(s) of Product



### Signal Word

Danger

#### Named Chemicals on Label

Styrene

# HAZARD STATEMENTS

Skin Irritation, category 2

Flammable Liquid, category 3

H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P284	Wear respiratory protection.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.
	H332 H335 H361d H372 H412 P210 P260 P264 P273 P280 P284 P304+340

Flammable liquid and vapour.

Causes skin irritation.

Continue rinsing.

closed.

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly

Get medical advice/attention if you feel unwell.

# 2.3 Other hazards

No Information

# Results of PBT and vPvB assessment:

Contains PBT/vPvB substances >= 0.1% assessed in accordance with REACH Annex XIII.

P308+313

P332+313

P403+233

P314

# **SECTION 3: Composition/Information On Ingredients**

#### 3.2 Mixtures

#### **Hazardous Ingredients**

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<u>CAS-No.</u>	EINEC No.	Name According to EEC	<u>%</u>
100-42-5	202-851-5	Styrene	50 - <75
25973-55-1	204-469-4	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	0.1 - < 1.0

<u>CAS-No.</u> <u>REACH Reg No.</u> <u>CLP Symbols</u> <u>CLP Hazard Statements</u> <u>M-Factors</u>

100-42-5 01-2119457861-32 GHS02-GHS07-GHS08 H226-304-315-319-332-335-361d-372

25973-55-1 GHS08 H373-413

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

# **SECTION 4: First-aid Measures**

#### 4.1 Description of First Aid Measures

**GENERAL NOTES:** When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes.

AFTER INHALATION: Move to fresh air. Remove person to fresh air. If signs/symptoms continue, get medical attention. AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do NOT use solvents or thinners. AFTER EYE CONTACT: Keep eye wide open while rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. If symptoms persist, call a physician or Poison Control Centre immediately. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

#### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

No Information

#### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

### **SECTION 5: Fire-fighting Measures**

#### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above. Do not use a solid water stream as it may scatter and spread fire.

#### 5.2 Special hazards arising from the substance or mixture

Explosive reaction may occur on heating or burning. In use, may form flammable/explosive vapour-air mixture.

#### 5.3 Advice for firefighters

Keep containers and surroundings cool with water spray. Fire will produce dense black smoke containing hazardous combustion products (see section 10). Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged

into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **SECTION 6: Accidental Release Measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Remove all sources of ignition.

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

#### 6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Ventilate the area. Refer to protective measures listed in sections 7 and 8.

#### 6.4 Reference to other sections

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

# **SECTION 7: Handling and Storage**

#### 7.1 Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. As a rule, at least 10 air changes per hour are recommended at the workplace. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Keep away from sources of ignition - No smoking.

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product.

#### 7.2 Conditions for safe storage, including any incompatibilities

**CONDITIONS TO AVOID:** Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Heat, flames and sparks. Direct sources of heat.

**STORAGE CONDITIONS:** Store in original container. Store at room temperature in the original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

#### 7.3 Specific end use(s)

No specific advice for end use available.

#### SECTION 8: Exposure Controls/Personal Protection

#### 8.1 Control parameters

# Ingredients with Occupational Exposure Limits (UK WELS)

<u>Name</u>	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
Styrene	100-42-5	100	250	1080	430
2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol	25973-55-1				

Name CAS-No. OEL Note

Styrene 100-42-5 2-(2H-benzotriazol-2-yl)-4,6ditertpentylphenol 25973-55-1

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

#### 8.2 Exposure controls

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#### **Personal Protection**

**RESPIRATORY PROTECTION:** Preferably a compressed airline breathing apparatus. In case of insufficient ventilation wear suitable respiratory equipment. Respirator with a vapor filter.

**EYE PROTECTION:** Safety goggles. Tightly fitting safety goggles. Safety glasses with side-shields conforming to EN 166. **HAND PROTECTION:** Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Rubber or plastic gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Protective suit. Remove contaminated clothing and protective equipment before entering eating areas.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** As a rule, at least 10 air changes per hour are recommended at the workplace. Avoid contact with skin, eyes and clothing. Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

#### **Chemical Name:**

Styrene

**EC No.:** CAS-No.: 202-851-5 100-42-5

#### **DNELs - Derived no effect level**

	Workers			Consumers				
Route of	Acute effect	Acute effects	Chronic effects	Chronic effects	Acute effect	Acute effects	Chronic effects	Chronic effects
Exposure	local	systemic	local	systemic	local	systemic	local	systemic
Oral		Not required				· •		
Inhalation	306 mg/m <sup>3</sup>	289 mg/m <sup>3</sup>		85 mg/m³				
Dermal				406 mg/kg bw/				
				day				

# PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.028 mg/L
Fresh water sediments	0.614 mg/kg
Marine water	0.014 mg/L
Marine sediments	0.307 mg/kg
Food chain	None
Microorganisms in sewage treatment	5 mg/L soil dw
soil (agricultural)	0.2 mg/kg
Air	None

# **SECTION 9: Physical and Chemical Properties**

#### 9.1 Information on basic physical and chemical properties

Appearance: Various Colours

Physical State Liquid

Odor Not determined
Odor threshold Not determined

pH Not determined

Melting point / freezing point (°C) Not determined

Boiling point/range (°C) 145 - N.D.

Flash Point, (°C) ~31

Evaporation rate Not determined Flammability (solid, gas) Not determined

Upper/lower flammability or explosive

limits

Not determined

Vapour Pressure Not determined Vapour density Not determined Relative density 1,04 g/ml (20°C) Solubility in / Miscibility with water Not determined Partition coefficient: n-octanol/water Not determined Auto-ignition temperature (°C) Not determined Decomposition temperature (°C) Not determined Viscosity Not determined **Explosive properties** Not determined Oxidising properties Not determined

#### 9.2 Other information

VOC Content g/I: <60

This is a calculated maximum VOC content for the mixed ready to use product (to Directive 2004/42/EC).

# **SECTION 10: Stability and Reactivity**

## 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

#### 10.2 Chemical stability

Stable under recommended storage conditions. Risk of ignition.

#### 10.3 Possibility of hazardous reactions

Polymerisation occurs when exposed to white light, ultraviolet light or heat.

#### 10.4 Conditions to avoid

Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Heat, flames and sparks. Direct sources of heat.

## 10.5 Incompatible materials

Oxidizing agents. Strong oxidizing agents. Amines. Reducing agents. Heavy metal salts. Avoid radical-forming starting agents, peroxides and reactive metals.

#### 10.6 Hazardous decomposition products

In case of fire **hazardous decomposition products** may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). No dangerous reaction known under conditions of normal use.

# **SECTION 11: Toxicological Information**

#### 11.1 Information on toxicological effects

**Acute Toxicity:** 

Oral LD50: No Information Inhalation LC50: No Information

Irritation: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

**Toxicity for reproduction:** No information available.

**STOT-single exposure:** No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
100-42-5	Styrene	5000 mg/kg (rat)	2001 mg/kg (rat)	12 mg/l (rat)	2770 ppm	1.5 mg/l (rat)
25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	> 2001 mg/kg (rat)	> 2001 mg/kg (rabbit)		0.000	> 400 mg/l (rat)

#### Additional Information:

In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

# **SECTION 12: Ecological Information**

#### 12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

No information

No information

No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

**12.4 Mobility in soil:** No information

12.5 Results of PBT and vPvB Contains PBT/vPvB substances >= 0.1% assessed in accordance with REACH

assessment: Annex XIII.

12.6 Other adverse effects: No information

CAS-No.	Name According to EEC	EC50 48hr	IC50 72hr	LC50 96hr
100-42-5	Styrene	4.7 mg/l	4.8 mg/l	4.02 mg/l
25973-55-1	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol	> 100 mg/l	> 100 mg/l	> 100 mg/l

# **SECTION 13: Disposal Considerations**

13.1 WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. If recycling is not practicable, dispose of in compliance with local regulations. Container hazardous when empty. Empty containers should be taken to an approved waste handling site for recycling or disposal.

080111\* **European Waste Code:** 150110 Packaging Waste Code:

# **SECTION 14: Transport Information**

14.1 UN number UN1263 14.2 UN proper shipping name Paint

> **Technical name** Not applicable

14.3 Transport hazard class(es) 3

> Not applicable Subsidiary shipping hazard

14.4 Packing group

Not applicable 14.5 Environmental hazards 14.6 Special precautions for user Not applicable EmS-No.: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable

# **SECTION 15: Regulatory Information**

15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

**National Regulations:** 

Not available **Denmark Product Registration Number:** 

Danish MAL Code: Not available

Danish MAL Code - Mixture: Not available

Not available **Sweden Product Registration Number:** 

**Norway Product Registration Number:** Not available

**Germany WGK Class:** Not available

Covered by Directive 2012/18/EC (Seveso III): Not applicable

Restrictions to product or to substances according

to Annex XVII, Regulation (CE) 1907/2006: Not applicable

#### **Annex XIV - Authorisation List:**

CAS-No. Name According to EEC

Not Applicable

#### SVHC - Substances of very high concern (Candidate List):

CAS-No. Name According to EEC

25973-55-1 2-(2H-benzotriazol-2-yl)-4,6-

ditertpentylphenol

#### 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

# SECTION 16: Other Information

# Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

Flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
Suspected of damaging the unborn child.
Causes damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.
May cause long lasting harmful effects to aquatic life.

## Reasons for revision

Substance Hazard Threshold % Changed
Substance and/or Product Properties Changed in Section(s):
08 - Exposure Controls/Personal Protection
11 - Toxicological Information
12 - Ecological Information
15 - Regulatory Information

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

Revision Statement(s) Changed

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark; European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP); EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

CLP Classification, Labeling & Packaging Regulation

EC European Commission
EU European Union

Product: FLOWCHEM VE GL(FLEX)-RESIN

Date Printed: 26/06/2020

IIS United States

CAS Chemical Abstract Service EINECS

European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

Globally Harmonized System of Classification and Labeling of Chemicals GHS

Long term exposure limit LTEL Short term exposure limit STEL OEL Occupational exposure limit

Parts per million ppm

Milligrams per cubic meter mg/m3 TLV Threshold Limit Value

American Conference of Governmental Industrial Hygienists ACGIH

OSHA Occupational Safety & Health Administration

Permissible Exposure Limits VOC Volatile organic compounds

Grams per liter g/l

Milligrams per kilogram mg/kg

Not applicable N/A LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration IC50 Half maximal inhibitory concentration PBT Persistent bioaccumulative toxic chemical vPvB Very persistent and very bioaccumulative

European Economic Community

International Transport of Dangerous Goods by Road ADR International Transport of Dangerous Goods by Rail RTD

United Nations UN

International Maritime Dangerous Goods Code IMDG IATA International Air Transport Association

International Convention for the Prevention of Pollution From Ships, 1973 as MARPOL

modified by the Protocol of 1978

International Bulk Container RTI Respiratory Tract Irritation

Narcotic Effects NE

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.